

FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
		FIRST NAMED INVENTOR Sebbel et al.	
		FILING DATE May 4, 2001	ART UNIT 1648

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA						
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M M	AF2 5,143,726	09/01/1992	Thornton et al.			11/20/1989
	AG2 5,580,859	12/03/1996	Felgner et al.			03/18/1994
	AH2 5,935,821	08/10/1999	Chatterjee et al.			11/21/1996
	AI2 2004/0059094	03/25/2004	Bachmann et al.			07/18/2003
	AJ2 2004-0076611	04/22/2004	Bachmann et al.			07/14/2003
	AK2 2004-0076645	04/22/2004	Bachmann et al.			07/18/2003

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL						Yes
AM						No
M M	AN4 WO 99/28478	06/10/1999	WIPO			Yes
	AO4 WO 99/57289	11/11/1999	WIPO			No
	AP4 WO 00/50461	08/31/2000	WIPO			Yes
						No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR			
M M	AS 35	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of Escherichia coli," <i>Proc Natl Acad Sci U S A</i> . 1985 Sep;82(17):5724-5727, National Academy Press (1985)	
	AT 35	Abraham, S.N., et al., "Glycerol-induced unraveling of the tight helical conformation of Escherichia coli type 1 fimbriae," <i>J Bacteriol</i> . 1992 Aug;174(15):5145-5148, American Society for Microbiology (1992)	

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*Mosley All Considered*DATE CONSIDERED *2-25-05*

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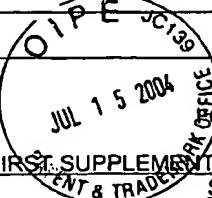
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M M	AL5	EP 0 385 610 A1	05/09/1990	Europe			Yes No
↓	AM5	EP 0 385 610 B1	03/16/1994	Europe			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	36	Arnon, R., et al., "A mimotope peptide-based vaccine against Schistosoma mansoni: synthesis and characterization," <i>Immunology</i> . 2000 Dec;101(4):555-562, Blackwell Science, Ltd. (December 2000)
↓	AS	36	Bachmann, M.F., et al., "TRANCE, a tumor necrosis factor family member critical for CD40 ligand-independent T helper cell activation," <i>J Exp Med.</i> 1999 Apr 5;189(7):1025-1031, The Rockefeller University Press (1999)
↓	AT	36	Bass, S., and Yang, M., "Expressing cloned genes in Escherichia coli," in <i>Protein Function: A practical Approach</i> , 2 nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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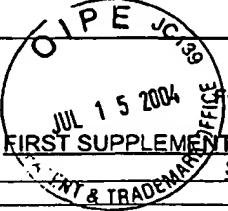
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AP						Yes

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M M	AR	37	Blomfield, I.C., et al., "Type 1 fimbriation and fimE mutants of Escherichia coli K-12., " <i>J Bacteriol.</i> 1991 Sep;173(17):5298-5307, American Society for Microbiology (1991)
	AS	37	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in Escherichia coli, " <i>Mol Microbiol.</i> 1997 Feb;23(4):705-717, Blackwell Science, Ltd. (1997)
	AT	37	Boder, E.T., and Wittrup, K.D., "Yeast surface display for directed evolution of protein expression, affinity, and stability, " <i>Methods Enzymol.</i> 2000;328:430-444, Academic Press (October 2000)

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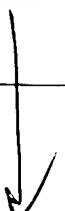
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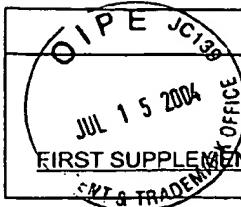
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 	AR	38	Bonci, A., et al., "Relatedness and phylogeny within the family of periplasmic chaperones involved in the assembly of pili or capsule-like structures of gram-negative bacteria," <i>J Mol Evol.</i> 1997 Mar;44(3):299-309, Springer Verlag New York Inc. 1997
	AS	38	Brinton, Jr., C.C., "the Structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," <i>Trans. N.Y. Acad. Sci.</i> 1965;27:1003-1054, New York Academy of Sciences (1965)
	AT	38	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J Immunol.</i> 1989 Jan 15;142(2):679-687, The American Association of Immunologists (1989)

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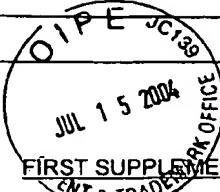
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M	AR	<u>39</u>	Brown, P.M., et al., "A single-step purification of biologically active recombinant human interleukin-5 from a baculovirus expression system," <i>Protein Expr Purif.</i> 1995 Feb;6(1):63-71, Academic Press, Inc. (1995)
	AS	<u>39</u>	Burger, J.A., et al., "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," <i>Blood.</i> 2000 Oct;96(8):2655-63, The American Society of Hematology (October 2000)
↓	AT	<u>39</u>	Burghoff, R.L., et al., "Utilization of the mouse large intestine to select an Escherichia coli F-18 DNA sequence that enhances colonizing ability and stimulates synthesis of type 1 fimbriae," <i>Infect Immun.</i> 1993 Apr;61(4):1293-1300, American Society for Microbiology (1993)

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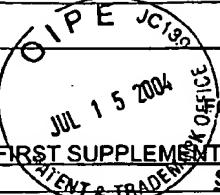
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	40	Daugherty, P.S. <i>et al.</i> , "Development of an optimized expression system for the screening of antibody libraries displayed on the Escherichia coli surface," <i>Protein Eng.</i> 1999 Jul;12(7):613-621, Oxford University Press (July 1999)
	AS	40	Eisenstein, B.I., <i>et al.</i> , "Phase variation of type 1 fimbriae in Escherichia coli is under transcriptional control," <i>Science</i> . 1981 Oct 16;214(4518):337-339, American Association for the Advancement of Science (1981)
	AT	40	Ellsseeva, E.L., <i>et al.</i> , "NMR studies of active N-terminal peptides of stromal cell-derived factor-1. Structural basis for receptor binding," <i>J Biol Chem.</i> 2000 Sep 1;275(35):26799-26805, The American Society for Biochemistry and Molecular Biology Inc. (September 2000)

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M M	AR	41	Fehr, T., <i>et al.</i> , "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," <i>Proc Natl Acad Sci U S A</i> . 1998 Aug 4;95(16):9477-9481, National Academy Press (1998)
	AS	41	Gally, D.L., <i>et al.</i> , "Environmental regulation of the fim switch controlling type 1 fimbrial phase variation in <i>Escherichia coli</i> K-12: effects of temperature and media," <i>J Bacteriol</i> . 1993 Oct;175(19):6186-6193, American Society for Microbiology (1993)
↓	AT	41	Gally, D.L., <i>et al.</i> , "Interaction of FimB and FimE with the fim switch that controls the phase variation of type 1 fimbriae in <i>Escherichia coli</i> K-12," <i>Mol Microbiol</i> . 1996 Aug;21(4):725-38, Blackwell Science Ltd: (1996)

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M	AR	<u>42</u>	Gherardi, E., et al., "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J Immunol Methods</i> . 1990 Jan 24;126(1):61-68, Elsevier (1990)
	AS	<u>42</u>	Hanes, J., et al., "Picomolar affinity antibodies from a fully synthetic naive library selected and evolved by ribosome display," <i>Nat Biotechnol</i> . 2000 Dec;18(12):1287-1292, Nature Publishing Company (December 2000)
↓	AT	<u>42</u>	Hanson, M.S., et al., "Purification of the Escherichia coli type 1 pilin and minor pilus proteins and partial characterization of the adhesin protein," <i>J Bacteriol</i> . 1988 Aug;170(8):3350-3358, American Society for Microbiology (1988)

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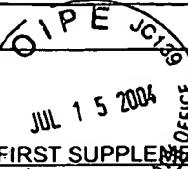
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M	AR	<u>43</u>	Hanson, M.S., and Brinton, Jr., C.C., "Identification and characterization of <i>E. coli</i> type-1 pilus tip adhesion protein," <i>Nature</i> . 1988 Mar 17;332(6161):265-8, Nature Publishing Group (1988)
J	AS	<u>43</u>	Harrison, J.L., et al., "Screening of phage antibody libraries," <i>Methods Enzymol.</i> 1996;267:83-109, Macmillan Publisher Ltd. (1996)
V	AT	<u>43</u>	Hirel, P.-H., et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," <i>Proc Natl Acad Sci U S A.</i> 1989 Nov;86(21):8247-8251, National Academy Press (1989)

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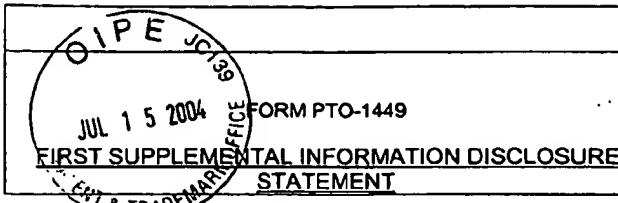
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M M	AR	44	Holmgren, A., et al., "Conserved immunoglobulin-like features in a family of periplasmic pilus chaperones in bacteria," <i>EMBO J.</i> 1992 Apr;11(4):1617-1622, Oxford University Press (1992)
	AS	44	Holmgren, A., and Bränden, C.-I., "Crystal structure of chaperone protein PapD reveals an immunoglobulin fold," <i>Nature</i> . 1989 Nov 16;342(6247):248-251, Nature Publishing Group (1989)
↓	AT	44	Hultgren, S.J., et al., "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," <i>Adv Protein Chem.</i> 1993;44:99-123, Academic Press Inc. (1993)

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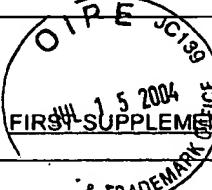
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AP						Yes No

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>45</u>	Hultgren, S.J., et al., "Pilus and nonpilus bacterial adhesins: assembly and function in cell recognition," <i>Cell</i> . 1993 Jun 4;73(5):887-901, Cell Press (1993)
	AS	<u>45</u>	Hultgren, S.J., et al., "Bacterial Adhesins and Their Assembly," in <i>Escherichia coli and Salmonella</i> , Neidhardt, F.C., et al., eds., ASM Press, Washington, D.C. pp. 2730-2756 (1996)
	AT	<u>45</u>	Hung, D.L., et al., "Molecular basis of two subfamilies of immunoglobulin-like chaperones," <i>EMBO J</i> . 1996 Aug 1;15(15):3792-3805, Oxford University Press (1996)
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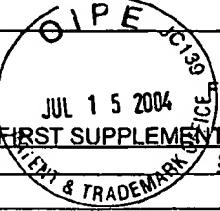
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>46</u>	Ingley, E., et al., "Production and purification of recombinant human interleukin-5 from yeast and baculovirus expression systems," <i>Eur J Biochem</i> . 1991 Mar 28;196(3):623-629, Blackwell Science Ltd. (1991)
	AS	<u>46</u>	Jacob-Dubuisson, F., et al., "PapD chaperone function in pilus biogenesis depends on oxidant and chaperone-like activities of DsbA," <i>Proc Natl Acad Sci U S A</i> . 1994 Nov 22;91(24):11552-11556, National Academy Press (1994)
	AT	<u>46</u>	Jacob-Dubuisson, F., et al., "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," <i>EMBO J</i> . 1993 Mar;12(3):837-47, Oxford University Press (1993)
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	47	Jacob-Dubuisson, F., et al., "Chaperone-assisted self-assembly of pili independent of cellular energy," <i>J Biol Chem.</i> 1994 Apr 29;269(17):12447-12455, The American Society for Biochemistry and Molecular Biology Inc. (1994)
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 JUL 15 2004 FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
		FIRST NAMED INVENTOR Sebbel et al.	
		FILING DATE May 4, 2001	ART UNIT 1648

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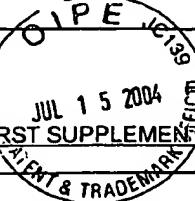
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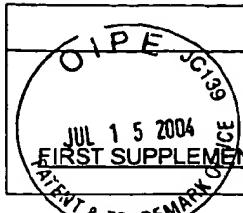
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR <u>49</u>	Klemm, P., "FimC, a chaperone-like periplasmic protein of Escherichia coli involved in biogenesis of type 1 fimbriae," <i>Res Microbiol.</i> 1992 Nov-Dec;143(9):831-838, Institut Pasteur/Elsevier (1992)					
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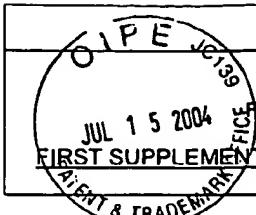
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>50</u>	Krogfelt, K.A., et al., "Direct evidence that the FimH protein is the mannose-specific adhesin of Escherichia coli type 1 fimbriae," <i>Infect Immun.</i> 1990 Jun;58(6):1995-1998, American Society for Microbiology (1990)
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>51</u>	Luther, S.A., et al., "BLC expression in pancreatic islets causes B cell recruitment and lymphotoxin-dependent lymphoid neogenesis," <i>Immunity</i> . 2000 May;12(5):471-481, Cell Press (May 2000)
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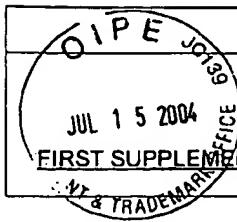
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>52</u>	McClain, M.S., et al., "Roles of fimbB and fimbE in site-specific DNA inversion associated with phase variation of type 1 fimbriae in Escherichia coli," <i>J Bacteriol.</i> 1991 Sep;173(17):5308-5314, American Society for Microbiology (1991)
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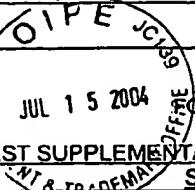
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>53</u>	Mitchell, D.L., et al., "Purification and characterisation of recombinant murine Interleukin-5 glycoprotein, from a Baculovirus expression system," <i>Biochem Soc Trans.</i> 1993 Nov;21(4):332S, Portland Press (1993)
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		FIRST NAMED INVENTOR <i>Sebbel et al.</i>	
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>54</u>	Nieland, J.D., et al., "Chimeric papillomavirus virus-like particles induce a murine self-antigen-specific protective and therapeutic antitumor immune response," <i>J Cell Biochem.</i> 1999 May 1;73(2):145-152, Wiley-Liss Inc. (May 1999)
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>55</u>	Orndorff, P.E., and Falkow, S., "Identification and characterization of a gene product that regulates type 1 piliation in <i>Escherichia coli</i> ," <i>J Bacteriol.</i> 1984 Oct;160(1):61-66, American Society for Microbiology (1984)
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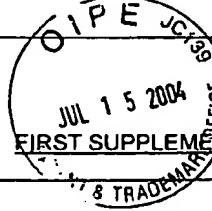
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>56</u>	Ritter, A., et al., "The Pai-associated leuX specific tRNA5(Leu) affects type 1 fimbriation in pathogenic Escherichia coli by control of FimB recombinase expression," <i>Mol Microbiol</i> . 1997 Sep;25(5):871-882, Blackwell Science Ltd (1997)
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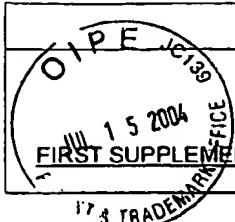
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>57</u>	Saulino, E.T., et al., "Ramifications of kinetic partitioning on usher-mediated pilus biogenesis," <i>EMBO J.</i> 1998 Apr 15;17(8):2177-2185, Oxford University Press (1998)
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR AS AT	58 58 58	<p>Smyth, C.J., et al., "Fimbrial adhesins: similarities and variations in structure and biogenesis," <i>FEMS Immunol Med Microbiol.</i> 1996 Dec 1;16(2):127-139, Elsevier (1996)</p>
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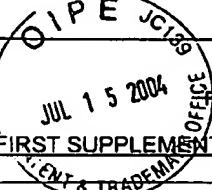
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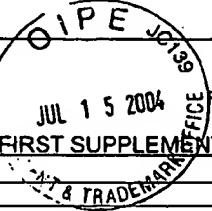
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>60</u>	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)
	AS	<u>60</u>	NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., et al. (November 1991)
	AT	<u>60</u>	NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., et al. (July 1992)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

 JUL 15 2004 FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
		FIRST NAMED INVENTOR Sebbel et al.	
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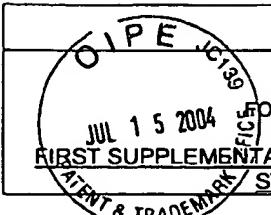
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>61</u>	NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993)
	AS	<u>61</u>	NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993)
	AT	<u>61</u>	NCBI Entrez, GenBank Report, Accession No. AAA37490, from Rouvier E. (July 1993)

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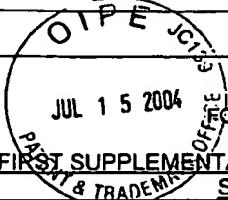
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AP						Yes No

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MARY E MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>62</u>	NCBI Entrez, GenBank Report, Accession No. M90520, from Kew, M.C., et al. (August 1993)
	AS	<u>62</u>	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)
	AT	<u>62</u>	NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>63</u>	NCBI Entrez, GenBank Report, Accession No. AAA16663, from Kozlovska, T.M., et al. (March 1994)
	AS	<u>63</u>	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., et al. (May 1994)
	AT	<u>63</u>	NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., et al. (April 1995)

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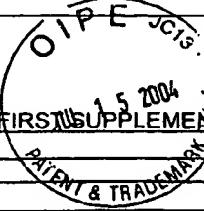
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	64	NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., et al. (April 1995)
	AS	64	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
	AT	64	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)
EXAMINER			DATE CONSIDERED

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 <small>15 2004</small> FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
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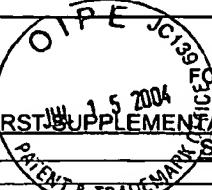
MARY E. MOSHER PRIMARY EXAMINER GROUP 1600	AR	65	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., et al. (April 1995)
	AS	65	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1600	AT	65	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995)

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 FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT 11-15-2004 <small>PATENT & TRADEMARK OFFICE</small>	ATTY. DOCKET NO. 1700.018002/BJD/SJE	APPLICATION NO. 09/848,616
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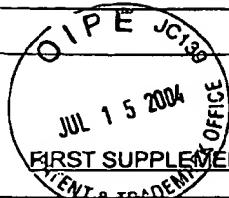
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>66</u>	NCBI Entrez, GenBank Report, Accession No. X85286, from Lai, M.E., et al. (April 1995)
	AS	<u>66</u>	NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., et al. (April 1995)
	AT	<u>66</u>	NCBI Entrez, GenBank Report, Accession No. X85291, from Lai, M.E., et al. (April 1995)
EXAMINER			DATE CONSIDERED

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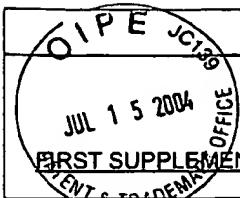
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	67	NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995)
	AS	67	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., et al. (April 1995)
	AT	67	NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., et al. (April 1995)

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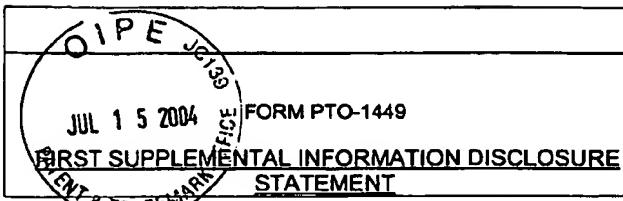
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>68</u>	NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., et al. (April 1995)
	AS	<u>68</u>	NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., et al. (April 1995)
	AT	<u>68</u>	NCBI Entrez, GenBank Report, Accession No. X85299, from Lai, M.E., et al. (April 1995)
EXAMINER	DATE CONSIDERED		

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	69	NCBI Entrez, GenBank Report, Accession No. X85301, from Lai, M.E., et al. (April 1995)
	AS	69	NCBI Entrez, GenBank Report, Accession No. X85302, from Lai, M.E., et al. (April 1995)
	AT	69	NCBI Entrez, GenBank Report, Accession No. X85303, from Lai, M.E., et al. (April 1995)
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	70	NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., et al. (April 1995)
	AS	70	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995)
	AT	70	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995)
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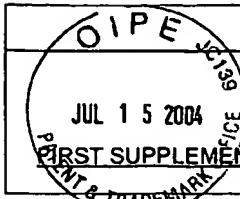
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	71	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., et al. (April 1995)
	AS	71	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., et al. (April 1995)
	AT	71	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., et al. (April 1995)

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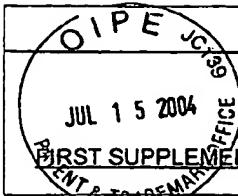
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	72	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)
	AS	72	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)
	AT	72	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)

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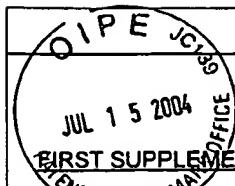
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	73	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., et al. (January 1996)
	AS	73	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., et al. (February 1996)
	AT	73	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., et al. (April 1996)
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	74	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)
	AS	74	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
	AT	74	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997)

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	75	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., et al. (October 1997)
	AS	75	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997)
	AT	75	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998)

EXAMINER	DATE CONSIDERED
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 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
		FIRST NAMED INVENTOR Sebbel et al.	
		FILING DATE May 4, 2001	ART UNIT 1648

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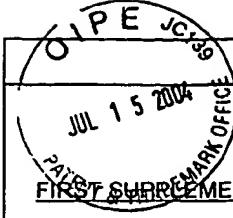
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	76	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., et al. (April 1998)
	AS	76	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., et al. (May 1998)
	AT	76	NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., et al. (September 1998)
EXAMINER			DATE CONSIDERED

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AM						No
AN		,				Yes
AO						No
AP						Yes

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1890	AR	77	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999)
	AS	77	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999)
	AT	77	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999)

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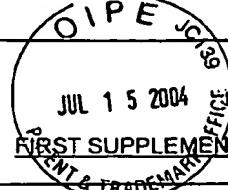
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AN						Yes
AO						No
AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	78	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)
	AS	78	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)
	AT	78	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	79	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)
	AS	79	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., et al. (October 1999)
	AT	79	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., et al. (October 1999)

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<p style="text-align: right;">O P E JUL 15 2004 FCC FORM PTO-1449 PATENT & TRADEMARK OFFICE FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</p>	ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
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AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>80</u>	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., et al. (December 1999)
	AS	<u>80</u>	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., et al. (April 2000)
	AT	<u>80</u>	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., et al. (May 2000)
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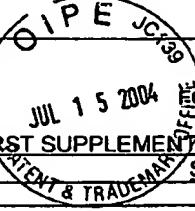
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	AR	81	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., et al. (July 2000)
MARYE MOSHER PRIMARY EXAMINER GROUP 1800	AS	81	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)
	AT	81	NCBI Entrez, GenBank Report, Accession No. M95589, from Shl, H., et al. (January 2001)

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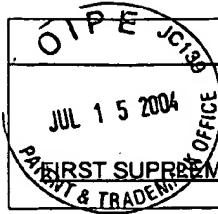
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1600	AR	<u>82</u>	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., et al. (January 2001)
	AS	<u>82</u>	NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., et al. (January 2001)
	AT	<u>82</u>	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., et al. (January 2001)

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
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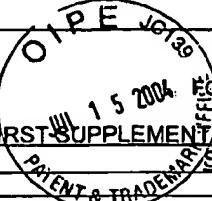
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PRIMARY EXAMINER GROUP 1800	AR	<u>83</u>	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunket, G., III, et al. (January 2001)
	AS	<u>83</u>	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)
	AT	<u>83</u>	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)

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		FIRST NAMED INVENTOR Sebbel et al.	
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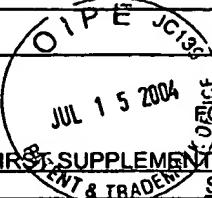
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARYE MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>84</u>	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)
	AS	<u>84</u>	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)
	AT	<u>84</u>	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)

EXAMINER	DATE CONSIDERED
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 JUL 15 2004 FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
		FIRST NAMED INVENTOR Sebbel et al.	FILING DATE May 4, 2001

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1600	AR	<u>85</u>	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)
	AS	<u>85</u>	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)
	AT	<u>85</u>	NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001)

EXAMINER	DATE CONSIDERED
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 FORM PTO-1449		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
		FIRST NAMED INVENTOR Seibel et al.	
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AO						Yes No
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PRIMARY EXAMINER GROUP 1800	AR	86	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., et al. (February 2002)
	AS	86	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., et al. (March 2002)
	AT	86	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002)

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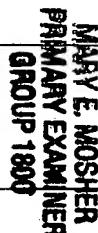
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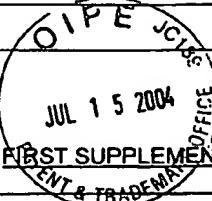
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	AR	87	NCBI Entrez, GenBank Report, Accession No. O09006, from Hromas, R., et al. (June 2002)
	AS	87	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)
	AT	87	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)

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		FIRST NAMED INVENTOR Seibel et al.	
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>88</u>	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)
	AS	<u>88</u>	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)
	AT	<u>88</u>	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)

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09/848,616FIRST NAMED INVENTOR
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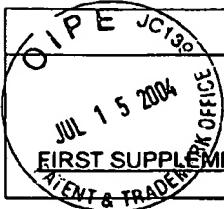
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	AS	<u>89</u>	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., et al. (September 2003)
	AT	<u>89</u>	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003)

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	90	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003)
	AS	90	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., et al. (September 2003)
	AT	90	NCBI Entrez, GenBank Report, Accession No. O00585, from Hromas, R., et al. (September 2003)

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 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
		FIRST NAMED INVENTOR Seibel et al.	
		FILING DATE May 4, 2001	ART UNIT 1648

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

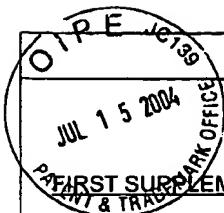
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PRIMARY EXAMINER SARAH E. MOSHER GROUP 1800	AR	91	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., et al. (September 2003)
	AS	21	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., et al. (September 2003)
	AT	91	NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., et al. (September 2003)

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FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
	FIRST NAMED INVENTOR Seibel et al.	
	FILING DATE May 4, 2001	ART UNIT 1648

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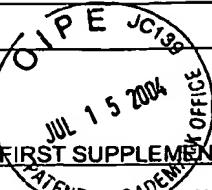
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	92	Swiss-Prot/TrEMBL, TN11_Mouse, Primary Accession No. O35235, entered in Swiss-Prot in October 2001
	AS	92	Swiss-Prot/TrEMBL, TN11_Human, Primary Accession No. O14788, entered in Swiss-Prot in October 2001
	AT	92	Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>93</u>	Copy of co-pending U.S. Application No. 10/733,582, inventors Renner et al., filed December 12, 2003 (NOT PUBLISHED)
	AS	<u>93</u>	Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002)
	AT	<u>93</u>	NCBI Entrez, PubMed Abstract, PMID: 2205968, Diallo, A., et al., "Morbillivirus group: genome organization and proteins," Vet. Microbiol. 23:155-163 (1990)
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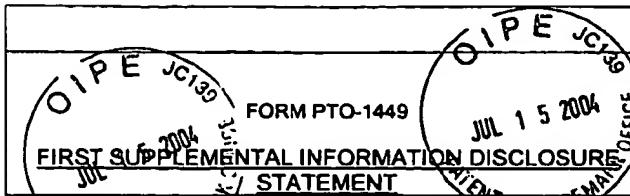
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>94</u>	Dialog File 351, Accession No. 1994-111516, Derwent WPI English language abstract for FR 2695563
	AS	<u>94</u>	International Search Report for International Application No. PCT/IB02/00168 mailed on November 4, 2002
	AT	<u>94</u>	International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002
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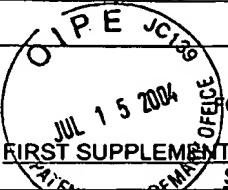
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AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	95	International Search Report for International Application No. PCT/IB02/00166, mailed January 31, 2003
	AS	95	Copy of Office Action mailed June 6, 2001, for United States Patent Application No. 09/449,631, Renner et al., filed November 30, 1999.
	AT	95	Copy of Office Action mailed February 27, 2002, for United States Patent Application No. 09/449,631, Renner et al., filed November 30, 1999.

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	96	Copy of Office Action mailed November 14, 2002, for United States Patent Application No. 09/449,631, Renner et al., filed November 30, 1999.
	AS	96	Copy of Office Action mailed March 1, 2004, for United States Patent Application No. 10/050,902, Renner et al., filed January 18, 2002.
	AT		

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